

Fort Huachuca Avian Monitoring

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Southeastern Arizona
Bird Observatory
SABO.org

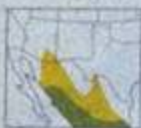






Madrean Archipelago





Broad-billed Hummingbird *Cynanthus latirostris*
 L 4" (10 cm) Adult male is dark green above and below, with white undertail coverts, a glittering blue gorget, and mostly red bill. Broad, forked tail is blackish-blue. Adult female is duller above, gray below; often shows a narrow white eye stripe; tail is square-tipped. Juveniles resemble female; by late summer, male begins to show blue and green flecks on throat, green on sides; dark, forked tail helps distinguish it from White-eared Hummingbird. Common in desert canyons, low mountain woodlands. Chattering je-dit call is similar to Ruby-crowned Kinglet. Male's display call is a whining zing. Rare in southern California during fall and winter.

White-eared Hummingbird *Hylocharis leucotis*
 L 3 1/2" (10 cm) Rare summer visitor from Mexico to southeastern Arizona mountains. Bill shorter than in Broad-billed Hummingbird; broad white stripe extends back from eye; black ear patch; square tail. Adult male has dark purple crown and chin, emerald green gorget; display call is a repeated, silvery tink tink tink. Chattering calls are loud and metallic.



Violet-crowned Hummingbird *Amazilia violiceps*
 L 4 1/2" (11 cm) Crown violet; underparts entirely white; upperparts bronze green; tail greenish. Long bill is mostly red. Uncommon in U.S. range. Favors streamside locations in low mesquite-sycamore or higher oak-sycamore canyons. Call is a loud chattering similar to Broad-billed Hummingbird. Male's song is a series of vibrant ts notes.



Blue-throated Hummingbird *Lampornis clemenciae*
 L 5" (13 cm) Adult male's throat is blue, female's gray. Broad white eye stripe and faint white whisker stripe border dark ear patch. Tail has broad white tips on outer feathers; compare female. Magnificent Hummingbird. Fairly common; found in mountain canyons, especially near streams. Casual north of mapped range. Male's call is a loud, very high, repeated serp.



Magnificent Hummingbird *Eugenes fulgens*
 L 5 1/2" (13 cm) Adult male is green above, with purple crown; metallic green throat; breast and upper belly black and green; lower belly dull brown. Tail is dark green and deeply notched. Female is duller, lacks purple crown; squarish tail has small grayish-white tips on outer feathers; compare female Blue-throated Hummingbird. Fairly common in high mountain meadows, canyons. Casual north of mapped range. Call is a sharp chip. Formerly named Rivoli's Hummingbird.

Plain-capped Starthroat *Helioaster constantii*
 L 5" (13 cm) Casual stray in summer and fall from Mexico to arid foothills and deserts of southeastern Arizona. Broad white whisker stripe, white eye stripe, and white tufts on flanks are conspicuous. Throat shows variable amount of red; note also very long bill, white patch on rump. Call is a sharp chip.





Sinaloa
Wren



Crescent-chested Warbler



White-tipped Dove





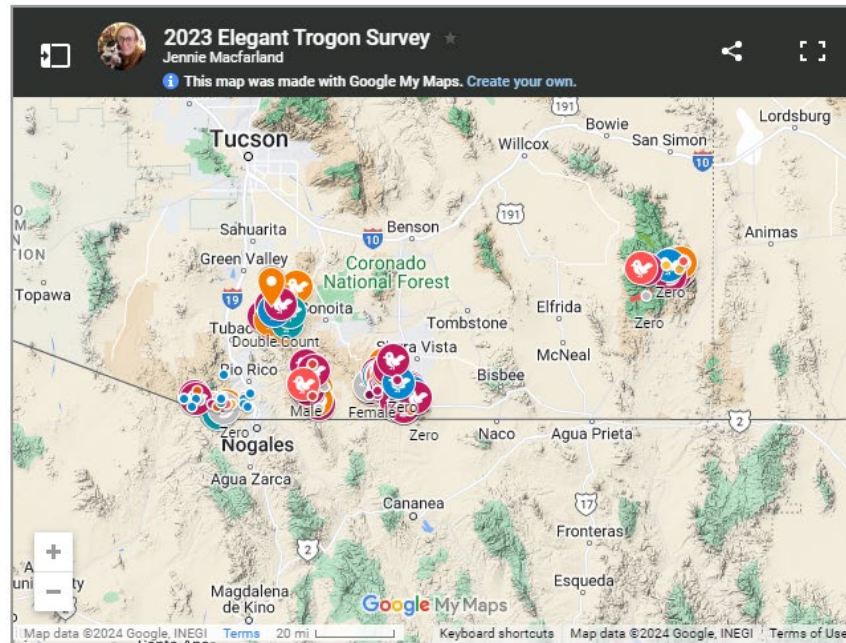
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Elegant Trogon Survey Results – 2023

Total Elegant Trogons counted in 2023 Survey = 183

36 pairs, 89 males, 2 females, and 20 unknowns = 183 Elegant Trogons

Map of Results for the 2023 Elegant Trogon Survey can be seen here



See Fun [photos taken by surveyors](#) during the 2023 Elegant Trogon Surveys of SE Arizona

In this section

2. Elegant Trogon Surveys of Sky Islands in Southeast Arizona

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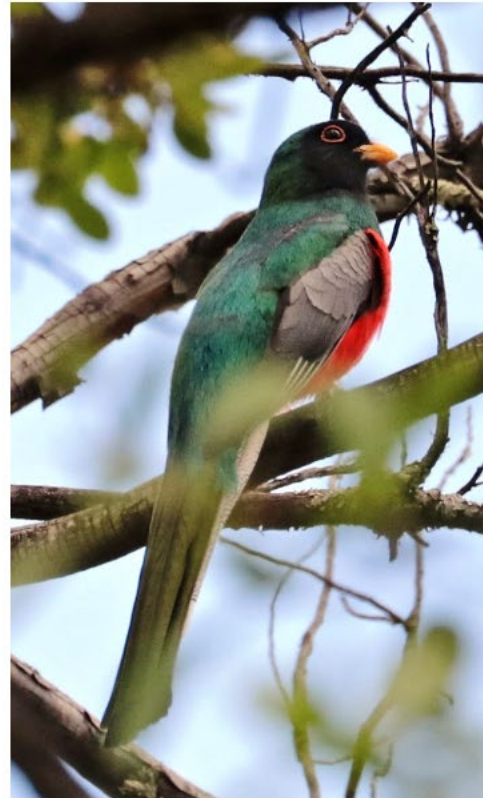
[Arizona IBA Bird Survey Database](#)

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Huachuca Mountains (Saturday May 27, 2023) – 10 pairs, 33 males, 1 female, 9 unknowns = 63 total Elegant Trogons

- Black Tail Canyon – 1 pair
- Lower Garden Canyon – 0
- McClure Canyon – 0
- Middle Garden Canyon – 1 male, 1 unknown
- Scheelite Canyon – 0
- Scheelite – Supplemental – 1 unknown
- Upper Garden Canyon – 1 pair, 1 male
- Sawmill to Sawmill Spring – 4 males
- Lower Huachuca Canyon – 0
- Lower Huachuca Canyon – Supplemental – 1 male
- Upper Huachuca Canyon – 1 pair, 2 males
- Huachuca Canyon – Side Route – 0
- Lower Ramsey Canyon – 0
- Middle Ramsey Canyon – 1 male
- Upper Ramsey Canyon – 1 male
- Carr Canyon – 0
- Upper Carr Canyon – 0
- Miller Canyon – 0
- Miller Canyon – supplemental – 1 male
- Lutz Canyon – 0
- Ash Canyon – 0
- Sunnyside Canyon – 1 pair, 2 males, 1 unknown
- Scotia Canyon – 4 pairs, 3 males
- Korn & Turtle Canyons – 2 males, 3 unknowns



*Male Elegant Trogon in Lone Mountain route in the Huachucas by
Richard Fray*



Elegant Trogon



Eared Quetzel



Grey
Hawk



Photo via Flickr HarmonyonPlanet Earth creative commons

Slate-throated
Redstart



Alan
Schmierer

Rufous-capped
Warbler



SABO



Whiskered Screech-Owl



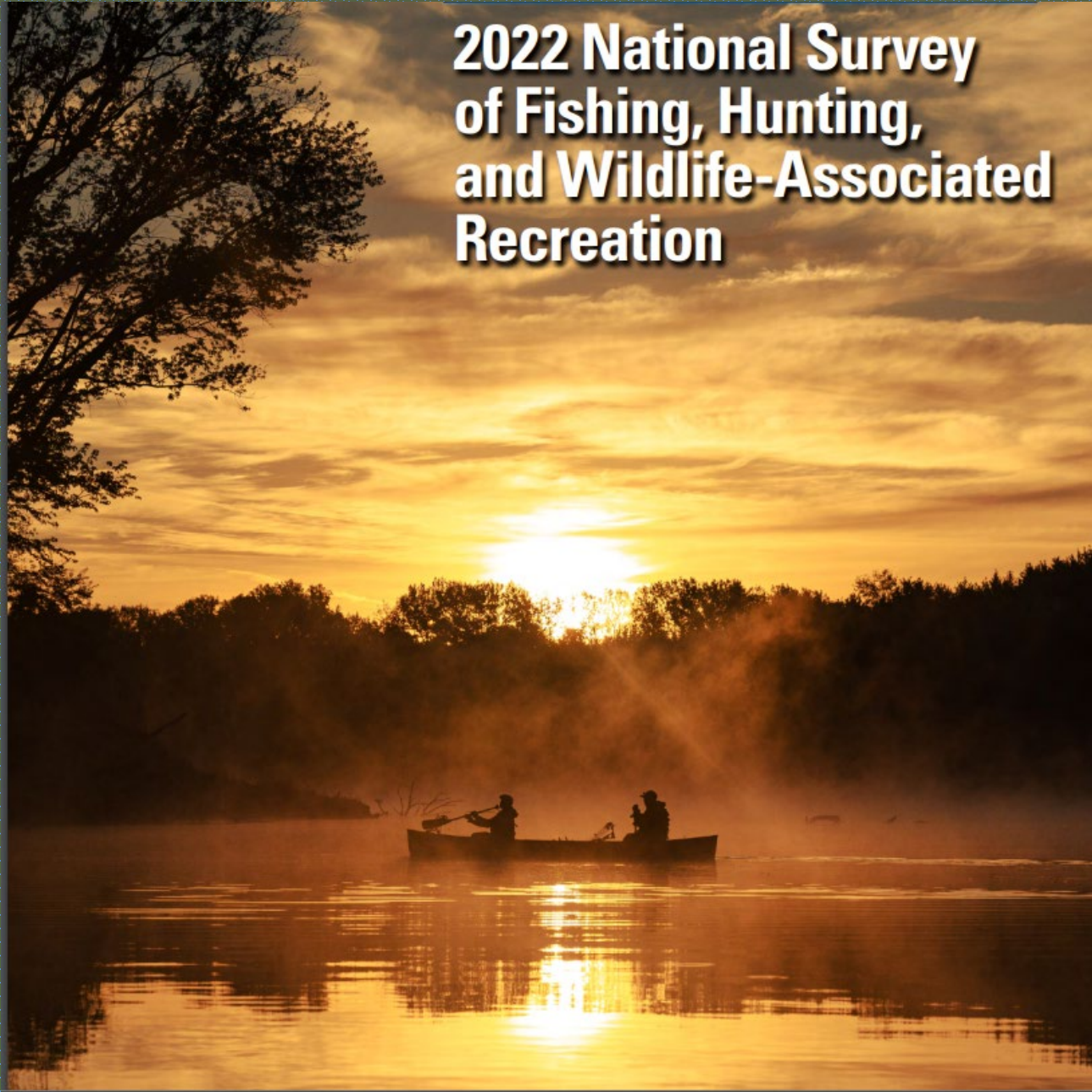
Elf Owl



Western
Screech-Owl



2022 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation

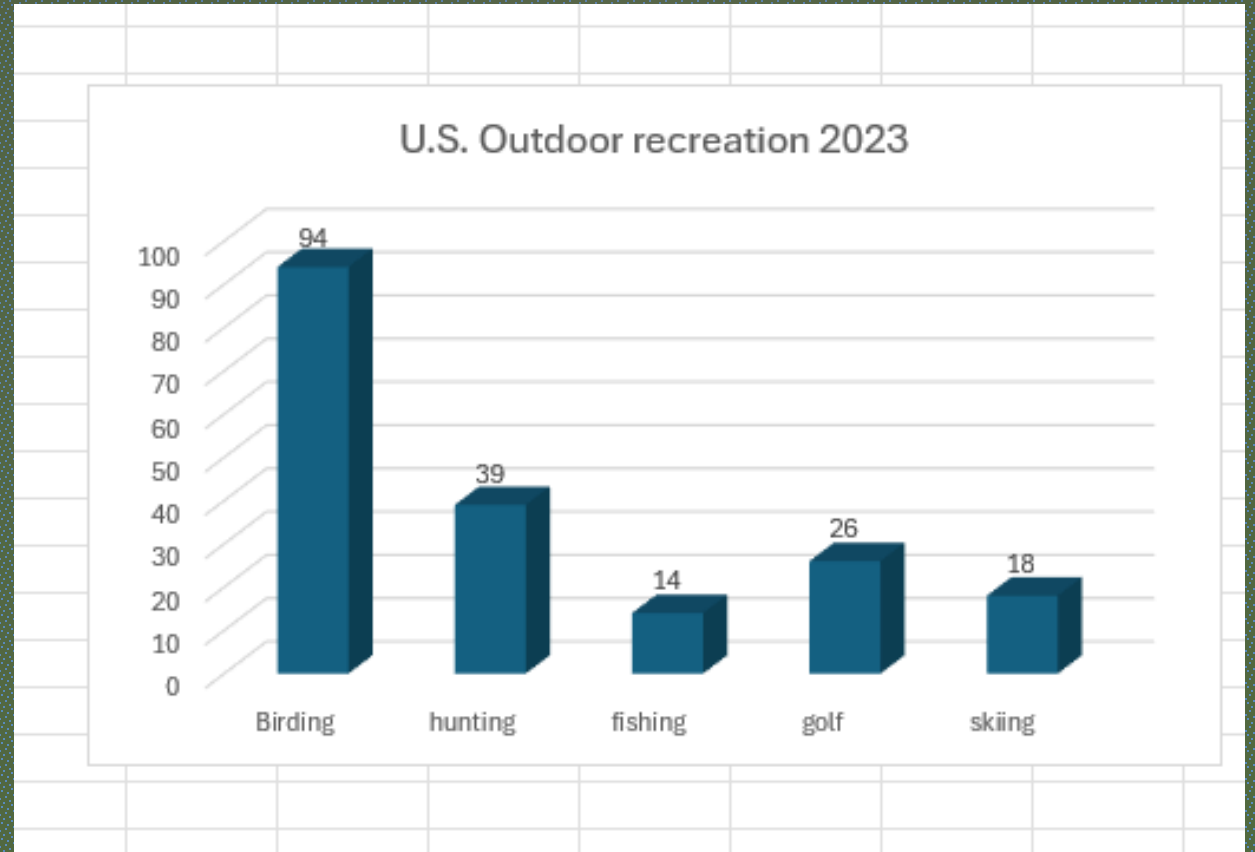


Popularity of Birding

& \$ 1 Billion Industry in Arizona

& Grew by 154% between 1990-2000.

& 42.6 million Americans travel to watch birds in 2023

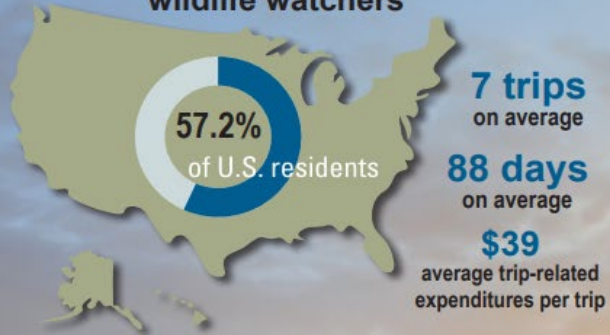


A Closer Look: Wildlife Watching Participation in the United States.

Wildlife watching age 16 and older in 2022

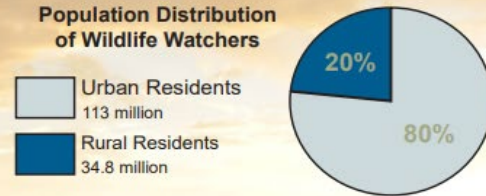
148,280,092
wildlife watchers

\$250,198,668,336
spent on wildlife watching



96.3 million
bird watchers out of the
148.2 million wildlife watchers

Population Distribution
of Wildlife Watchers



\$1,687
average annual amount
spent per wildlife watcher

\$284
average total trip-related
expenditures per wildlife watcher



SOURCE: The National Survey of Fishing, Hunting, & Wildlife-Associated Recreation. Scan the QR code on the left to read the full report.

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42 / 100

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100%

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Wildlife-Watching Highlights

Over half of the U.S. population 16 years old and older enjoyed wildlife watching in 2022. Wildlife watching is defined here as closely observing, feeding, or photographing wildlife, visiting public parks around the home to view wildlife, and maintaining plantings and natural areas around the home for the benefit of wildlife. These activities are categorized as around the home (within a mile of home) or away from home (at least one mile away from home).

The 2022 Survey counts wildlife watching as recreational activities in which the primary objective was to watch wildlife, as defined above. Secondary or incidental participation, such as observing wildlife while doing something else, was not included in the Survey.

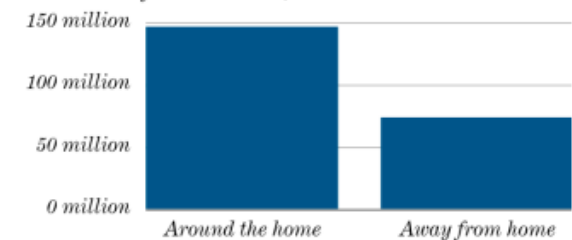
During 2022, 148.3 million U.S. residents, 57 percent of the U.S. population 16 years old or older, participated in wildlife-watching activities. Those who watched wildlife around the home numbered 146.5 million, while those who took trips away from their homes to wildlife watch numbered 73.3 million people.

Wild Bird Observers

Of all of the wildlife in the United States, birds were the greatest focus of wildlife watchers interviewed in 2022. Approximately 96.3 million people observed birds around the home and on trips in 2022. A large majority, 95 percent (91.1 million), observed wild birds around the home, while 44 percent, 42.6 million, took trips away from home to observe wild birds. Participants averaged 78 days of birding in 2022, with 67 days for around-the-home birders. Away-from-home birders averaged 34 days.

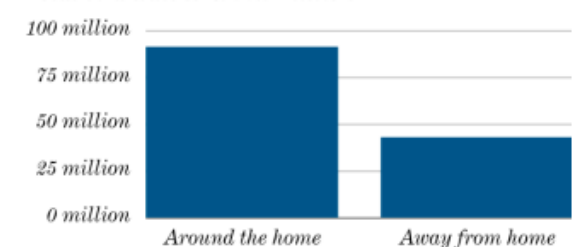
Wildlife-Watching Participants

Total wildlife watchers: 148.3 million



Bird Watchers

Total bird watchers: 96.3 million



Top Five Birding Sites in U.S

- ⌘ 1. Southeastern Arizona
- ⌘ 2. Cape May, NJ
- ⌘ 3. Ding Darling NWR, FL
- ⌘ 4. Everglades, FL
- ⌘ 5. Corkscrew Swamp, FL

Source: Birders World Magazine Poll Oct 2002



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world of
birding...

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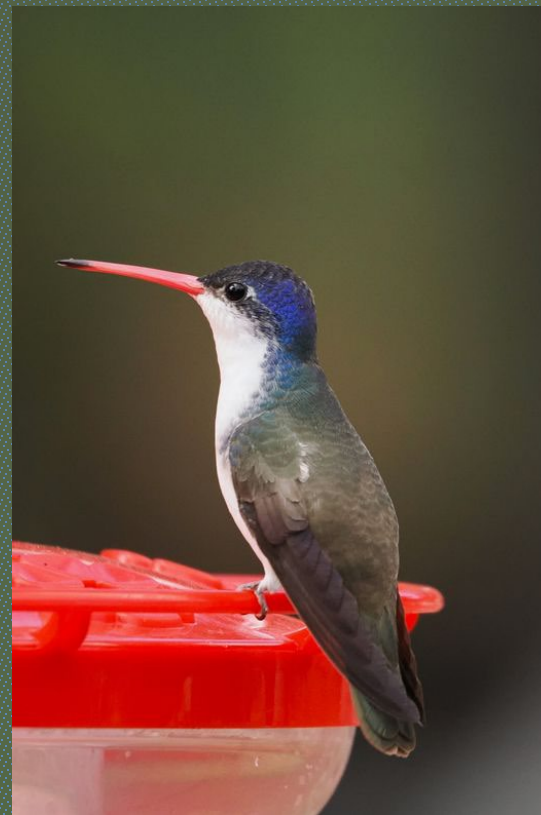




Black-chinned



Costa's



Violet-crowned



Anna's



Lucifer



Broad-billed



Blue-throated Mountain gem



Rufous



Allen's



Broad-tailed



Rivoli's



Calliope



White-eared



Berylline



Plain-capped Starthroat













Ash Canyon Bird Sanctuary





ORIOLES



Scott's



Hooded

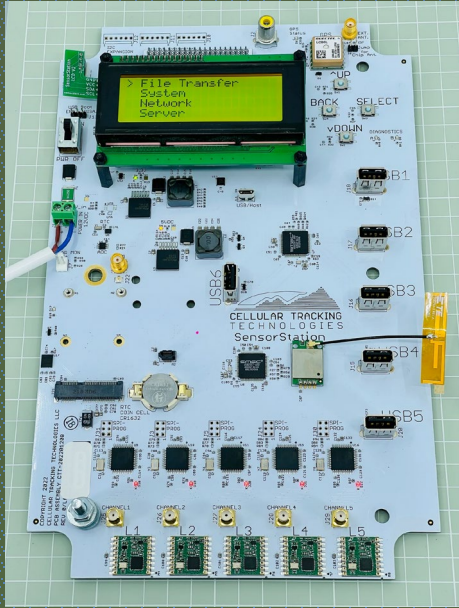


Bullock's

The Motus Wildlife Tracking System: a collaborative research network to track wildlife movement







Carrier Class Wildlife Telemetry Receiver

Now in its third generation, the CTT SensorStation™ is even more powerful than ever. Fully open source, this SensorGnome powered receiver features a Raspberry Pi CM3 + 16GB compute module, USB 2.0 backplane, LTE modem, GPS, RTC with battery, altimeter sensor, battery and solar voltage measurement, onboard 802.11n WiFi, 5x Arduino powered 32u4 processors, 6 high current USB 2.0 ports, LCD display, and more.



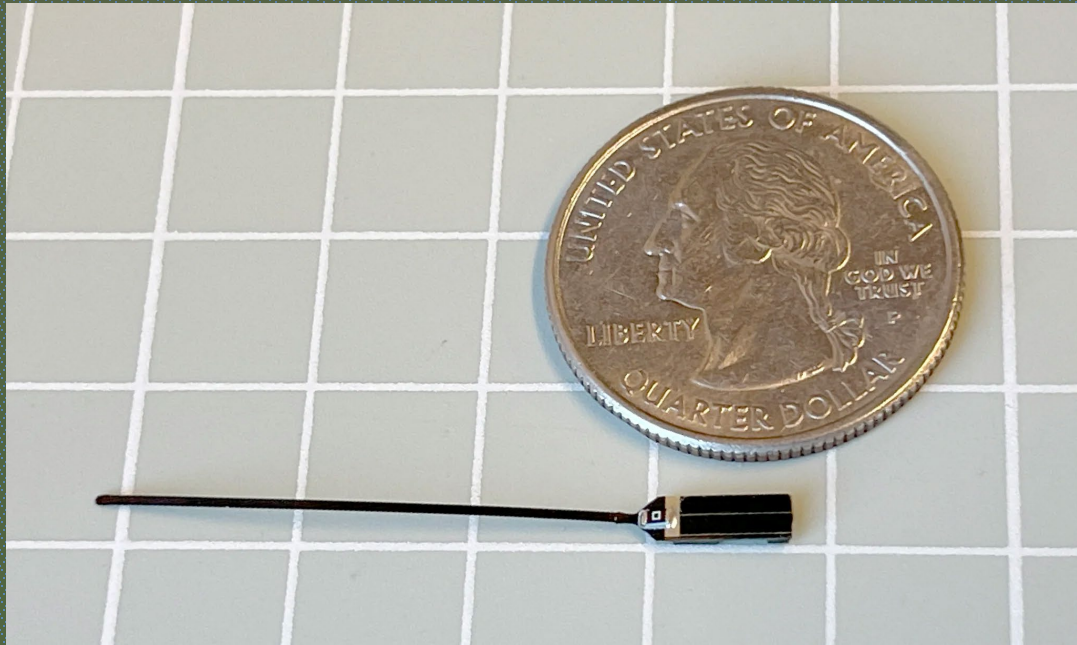
Yagi 9 element antennae

434 mhz

166.38 mhz



Frequency shift keying encodes binary signature



UHF Bluetooth

100m range

2.4 GHz





